UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------------|---|----------------------|---------------------|------------------|--|
| 10/084,981 | 03/01/2002 | Stefan Jansen | NOD-002.01 | 2225 | |
| 25181 FOLEV HOAG | 7590 05/02/2007 G I I P | EXAMINER | | | |
| PATENT GRO | FOLEY HOAG, LLP PATENT GROUP, WORLD TRADE CENTER WEST | | | WIMER, MICHAEL C | |
| | 155 SEAPORT BLVD BOSTON, MA 02110 | | ART UNIT | PAPER NUMBER | |
| B 001014, 1417 | 02110 | • | 2821 | | |
| | | | ·········· | | |
| | | | MAIL DATE | DELIVERY MODE | |
| | • | | 05/02/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | |
|--|---|-------------------|--|--|--|--|
| | 10/084,981 | JANSEN, STEFAN | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Michael C. Wimer | 2821 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | • | | | | | |
| 1) Responsive to communication(s) filed on 07 Fe | bruary 2007 | | | | | |
| <u> </u> | action is non-final. | | | | | |
| · | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 38-40 and 43-118 is/are pending in the | e application. | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5)⊠ Claim(s) <u>38-40 and 43-98</u> is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>43-48 and 99-118</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner | • | | | | | |
| 10) The drawing(s) filed on is/are: a) acce | | Examiner. | | | | |
| • | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign | priority under 35 H.S.C. & 119(a) | -(d) or (f) | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | priority and of orong 1 ro(a) | (4) 5. (1). | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | te | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) | 5) Notice of Informal Po | atent Application | | | | |
| Paper No(s)/Mail Date 6) L_ Other: | | | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 43-48 and 99-118 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamogawa et al. (6384785) in view Tsuru et al. (5530919).

Regarding Claims 43-48 and 99-118, Kamogawa et al. show, for example in Fig. 6, an antenna for use in a mobile phone comprising an element formed of conductor patterns 12,11,11a, and ground plane on the opposite side of the multi-layer substrate 1,2, and connecting adjacent traces of the element with a vias 19, in which is disposed in an aperture or region of dielectric therebetween. The method is provided by assembling the antenna structure in a mobile phone. Although there is no specific mention of the phone, a mobile device in Kamogawa et al. suggest the use therein. Thus, the patent to Tsuru et al. is cited as evidence of obviousness and as resolving the level of ordinary skill in the antenna art and shows an antenna 2,3 (Figures 4a and 4b) for use within the mobile phone 1 (Fig. 3). It would have been obvious to employ and assemble the antenna of Kamogawa et al. in a mobile phone as suggested by Tsuru et al.

Response to Arguments

Application/Control Number: 10/084,981

Art Unit: 2821

3. Applicant's arguments with respect to claims of record have been considered but

Page 3

are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

4. Claims 38-40 and 43-98 are allowed.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael C. Wimer whose telephone number is (571)

272-1833. The examiner can normally be reached on M-F.

The fax phone number for the organization where this application or proceeding

is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Wimer Primary Examiner

Art Unit 2821

MCW

4/25/2007